

PATENT CLAIMS

1. A folding top for a cabriolet vehicle, comprising
a first roof part (1), which is designed as a rigid shell part,
a second roof part (2), which is designed as a rigid shell part,
it being possible for the first roof part (1) and the second roof part (2) to be pivoted in each case in relation to a bodywork (3) of the vehicle, and
a positive control means (4),
it being possible for the first roof part (1) and the second roof part (2) to be moved drivably by a common force-introduction unit (5) by means of the positive control means (4),
characterized in that the positive control means (4) comprises a mechanical control device (6), it being possible to delay the movement of the second roof part (2) in relation to the movement of the first roof part (1) by means of the control device (6).
2. The folding top as claimed in claim 1, characterized in that the control device (6) comprises a rotary link (7).
3. The folding top as claimed in claim 2, characterized in that the rotary link (7) can be driven by the force-introduction unit (5).
4. The folding top as claimed in claim 2 or 3, characterized in that the rotary link (7) is connected to the first roof part (1) by a first linkage (8), and in that the rotary link (7) is connected to the second roof part (2) by a second linkage (9).
5. The folding top as claimed in one of claims 1 to 4, characterized in that the first roof part (1) is a front roof part, and the second roof part (2) is a rear roof part, of the folding top, a central

roof part (10) being arranged between the first roof part (1) and the second roof part (2) when the folding top is closed.

6. The folding top as claimed in claim 5, characterized in that the first roof part (1) is connected to the central roof part (10) via a front four-bar mechanism (11), and in that the second roof part (2) is connected to the central roof part (10) via a rear four-bar mechanism (12).

7. The folding top as claimed in claim 6, characterized in that the central roof part (10) is connected to the bodywork (3) of the vehicle via a main four-bar mechanism (13).

8. The folding top as claimed in claim 6 or 7, characterized in that an outside link (11a) of the front four-bar mechanism (11) is arranged adjacent the outside of the central roof part (10) when the folding top is closed.

9. The folding top as claimed in claim 8, characterized in that the outside link (11a) is connected to the central roof part (10) via a small four-bar mechanism (20).

10. The folding top as claimed in one of claims 1 to 9, characterized in that the control device (6) comprises a rotatable control plate.

11. The folding top as claimed in one of claims 1 to 10, characterized in that a central roof part (10) is provided, an outside link (11a) being connected in an articulated manner in each case to the central roof part (10) and to the first roof part (1), and the outside link (11a) being articulated on an outer side of the central roof part (10) when the folding top is closed, characterized in that the outside link (11a) is articulated on the central roof part (10) by means of a four-bar mechanism (20).

12. The folding top as claimed in claim 11, characterized in that the outside link (11a) is arranged in a groove-like recess (10b) of the central roof part (10) when the folding top is closed.

13. The folding top as claimed in claim 11 or 12, characterized in that the outside link can be pivoted by an angle of at least 150 degrees, particularly preferably by at least 160 degrees.

14. The folding top as claimed in one of claims 11 to 13, characterized in that a covering plate (21) is secured such that it can be pivoted at an articulation (21a), with the result that the covering plate can be pivoted essentially parallel to links (20a, 20b) of the four-bar mechanism (20).

15. The folding top as claimed in one of claims 11 to 14, characterized in that the central roof part (10) forms a base of the four-bar mechanism (20), and in that the outside link (11a) forms a connecting rod of the four-bar mechanism (20).

16. The folding top as claimed in one of claims 11 to 15, characterized in that the first roof part (1) can be pivoted essentially parallel over the roof part (10).

17. A folding top for a cabriolet vehicle, comprising

a first roof part (101),

a second roof part (102) and

an openable rear element (115),

the first roof part (101) being arranged in front of the second roof part (102), as seen in the direction of travel, when the folding top is closed,

the second roof part (102) resting on the rear element (115) when the folding top is closed,

characterized in that the first roof part and the second roof part are mounted on a main-link mechanism (113), the main-link mechanism (113) being mounted in a movable manner on a bodywork of the vehicle, and it being possible for the first roof part (101) to be displaced in relation to the main-link mechanism (113).

18. The folding top as claimed in claim 17, characterized in that the second roof part (102) rests on the rear element (115) with sealing action from above when the folding top is closed.

19. The folding top as claimed in claim 17 or 18, characterized in that, in a first stage of a folding-top opening movement, the second roof part (102) can be raised up from the rear element (115).

20. The folding top as claimed in one of claims 17 to 19, characterized in that the rear element (115) covers over a stowage region for the folding top and can be pivoted open counter to the direction of travel.

21. The folding top as claimed in claim 20, characterized in that the first roof part (101) is displaced by means of a first link mechanism (111), which connects the first roof part (101) to the main-link mechanism (113).

22. The folding top as claimed in one of claims 17 to 21, characterized in that the second roof part (102) can be displaced in relation to the main-link mechanism (113).

23. The folding top as claimed in claim 22, characterized in that the second roof part (102) is displaced by means of a second link mechanism (112), which connects the second roof part (102) to the main-link mechanism (113).

24. The folding top as claimed in one of claims 17 to 23, characterized in that at least the first roof part (101) or the second roof part (102) is mounted on a carrying link (110a) of the main-link mechanism (113).

25. The folding top as claimed in one of claims 17 to 24, characterized in that the first roof part (101) and the second roof part (102) can be displaced in opposite directions to one another and relative to the main-link mechanism (113) in each case.

26. The folding top as claimed in one of claims 17 to 25, characterized in that the first roof part (101) can be displaced over the second roof part (102).

27. The folding top as claimed in claim 26, characterized in that the first roof part can be pivoted essentially parallel over the second roof part (102).

28. The folding top as claimed in one of claims 17 to 25, characterized in that the second roof part (102) can be displaced over the first roof part (101).

29. The folding top as claimed in one of claims 17 to 28, characterized in that the first roof part (101) and the second roof part (102) are connected to one another by a positive control means (104), it being possible for the roof parts (101, 102) to be moved in a positively controlled manner in relation to one another by the positive control means (104).

30. The folding top as claimed in claim 29, characterized in that the positive control means comprises a mechanical control device (6), it being possible to delay the movement of the second roof part (102) in relation to the movement of the first roof part (101) by means of the control device (6).

31. The folding top as claimed in claim 30, characterized in that the control device (6) comprises a rotary link (7).
32. The folding top as claimed in claim 31, characterized in that the rotary link (7) can be driven by a force-introduction unit (5).
33. The folding top as claimed in claim 31 or 32, characterized in that the rotary link (7) is connected to the first roof part (1, 101) by a first linkage (8), and in that the rotary link (7) is connected to the second roof part (2, 102) by a second linkage (9).
34. The folding top as claimed in one of claims 17 to 33, characterized in that the first roof part (101) can be secured in a releasable manner on a windshield frame (130) of the vehicle when the folding top is closed.
35. The folding top as claimed in one of claims 17 to 34, characterized in that a third roof part is provided, the third roof part being arranged, as a central roof part, between the first roof part and the second roof part when the folding top is closed.
36. The folding top as claimed in one of claims 17 to 33, characterized in that a third roof part is provided, the third roof part being arranged in front of the first roof part (101) when the folding top is closed, with the result that the third roof part forms a front roof part, the second roof part (102) forms a rear roof part, and the first roof part (101) forms a central roof part, of a folding top.
37. The folding top as claimed in claim 36, characterized in that the third roof part is mounted in a movable manner on the first roof part (101).